

# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/AU2004/001630**

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int. Cl. 7: A61K 7/42, 38/22; A61P 17/00 According to International Patent Classification (IPC) or to both national classification and IPC														
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI, Medline; Keywords: MC1R, Melanocortin 1 receptor, polymorphism, allele, MT-1, melanotan, MC1R agonist, alpha-MSH analogue, tanning, melanogenesis														
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>														
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.												
A	Sturm RA, "Skin Colour and Skin Cancer – MC1R, The Genetic Link", Melanoma Research, October 2002, 12(5), pages 405-416. Abstract	1-10												
A	WO 1987/004623 A (University Patents Inc) 13 August 1987 Abstract, claims	1-10												
A	WO 2003/072072 A (The Arizona Board of Regents) 4 September 2003 Abstract, claims	1-10												
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex														
<table border="0"> <tr> <td>* Special categories of cited documents:</td> <td></td> </tr> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			* Special categories of cited documents:		"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art													
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"P" document published prior to the international filing date but later than the priority date claimed														
Date of the actual completion of the international search <b>8 December 2004</b>		Date of mailing of the international search report <b>14 DEC 2004</b>												
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  <b>ANTHONY MURFETT</b> Telephone No : (02) 6283 2243												

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C.(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Kadekaro A et al, "Significance of the Melanocortin 1 Receptor in Regulating Human Melanocyte Pigmentation, Proliferation, and Survival", Ann. N.Y. Acad. Sci., June 2003, vol 994, pages 359-365. Abstract	1-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001630

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
WO	8704623	AU	70828/87	DK	518187	EP	0200757
		EP	0259440	NZ	233248	US	4866038
		US	4918055	US	4959353	US	5049547
		WO	8602271				
WO	03072072	CA	2475985	EP	1478331		
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							